



# 308 SINGLE STAGE ELECTRICALLY HEATED REGULATOR

The 308 Series regulators are specifically designed to prevent freeze-up problems associated with high flows of carbon dioxide and nitrous oxide. As carbon dioxide or nitrous oxide passes through a regulator seat, dry ice can form if the flow is too high, causing the regulator to freeze up.

## Highlighted Features

- Single Stage
- Chrome-Plated Brass Barstock Body
- 316L Stainless Steel Diaphragm
- Electrically Heated
- NEMA 4

## Typical Applications

- ❖ Chemical Storage Blanketing
- ❖ Anaerobic Chambers
- ❖ Inert gas purging
- ❖ Atomic absorption oxidizer gas
- ❖ Semiconductor reactor furnace
- ❖ Inductively coupled plasma systems
- ❖ pH control

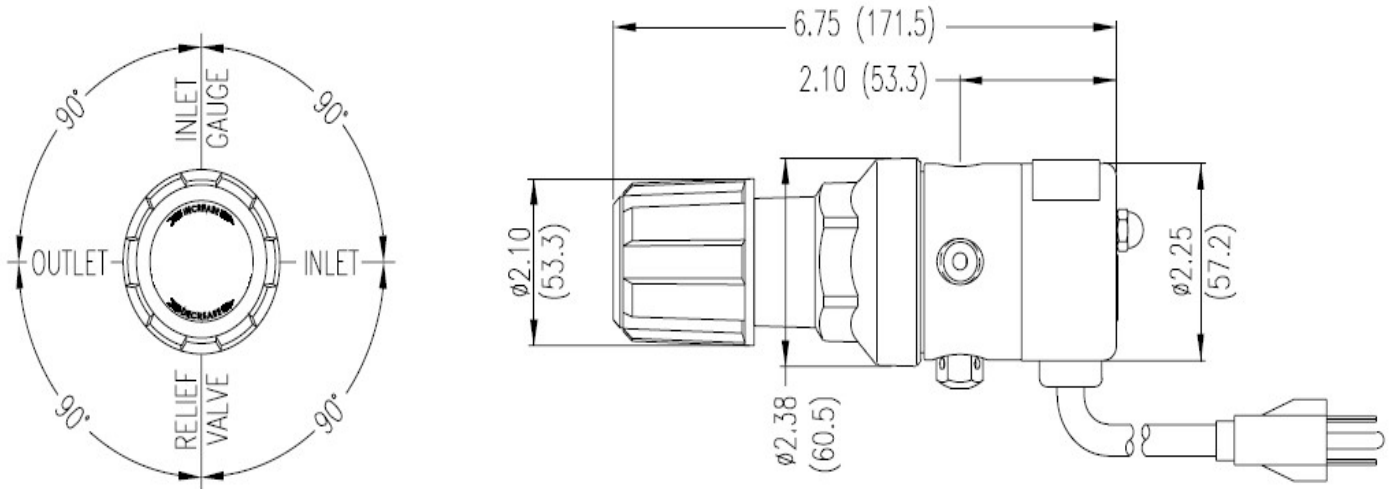


Features	Materials	Specifications
<p><b>CAPSULE® Seat</b> Increased serviceability and life</p> <p><b>316L Stainless Steel Diaphragm</b> No inboard diffusion</p> <p><b>Low Wetted Surface Area</b> Minimal purge requirements</p> <p><b>Field-Adjustable Pressure Limit</b> Safeguard downstream equipment</p> <p><b>Convuluted Diaphragm</b> Smooth pressure changes</p> <p><b>Compact Design</b> Easily transported and integrated into systems</p> <p><b>Three 50-Watt Heaters</b> Maintain gas flow up to 350 SCFH (165 LPM)</p> <p><b>316L Stainless Steel Diaphragm</b> Unaffected by low temperatures</p> <p><b>NEMA 4 Housing</b> For either indoor or outdoor use</p>	<p><b>Body</b> Chrome-plated brass barstock</p> <p><b>Bonnet</b> Chrome-plated brass barstock</p> <p><b>Seat</b> PCTFE</p> <p><b>Filter</b> 10 micron sintered bronze</p> <p><b>Diaphragm</b> 316L stainless steel</p> <p><b>Internal Seals</b> PTFE</p> <p><b>Electrical Housing</b> NEMA 4</p>	<p><b>Maximum Inlet Pressure</b> 3000 PSIG (210 BAR)</p> <p><b>Temperature Range</b> 95°F to 120°F (35°C to 49°C)</p> <p><b>Heaters</b> 3 @ 50 watts each (110 or 220 VAC)</p> <p><b>Gauges</b> 2" (53mm) diameter chrome-plated brass</p> <p><b>Ports</b> 1/4" FPT</p> <p><b>Helium Leak Integrity</b> 1 x 10<sup>-8</sup> scc/sec</p> <p><b>Cv</b> 0.1 <i>Flow curves on pages to follow</i></p> <p><b>Weight (308 3301-330)</b> 5.4 lbs. (245 kg)</p>

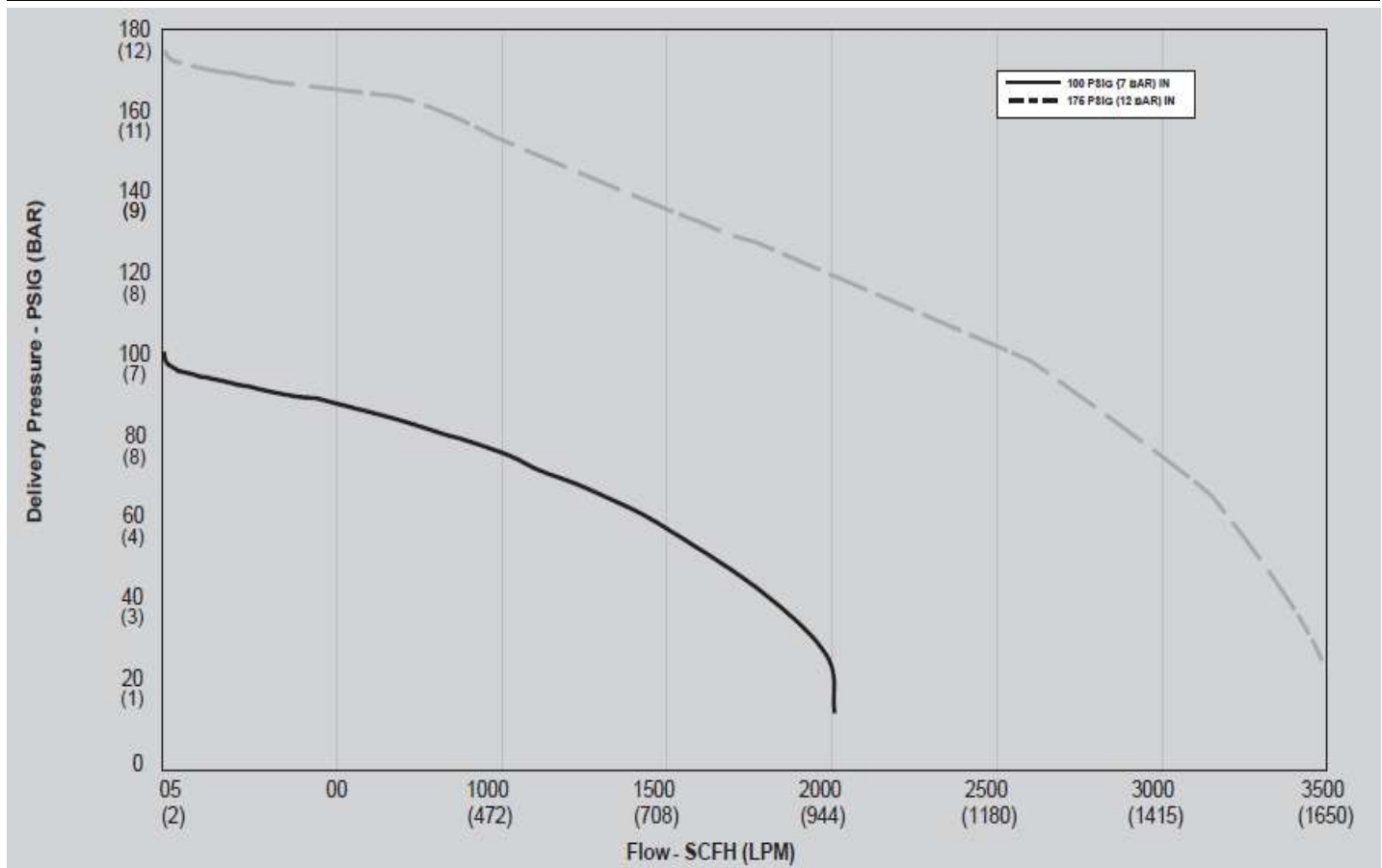
## Order Information

Model	A		B	C	D	-CON	
Series	Outlet Pressure	Outlet Gauge	Inlet Gauge	Outlet Assemblies	Gauges	Inlet Connections	Installed Options
<b>308</b>	1: 0-15 PSIG (0-1 BAR)	0-30 PSIG/ 0-2 BAR	0: None	0: 1/4" FPT port	0: Bare body 110 VAC	000: 1/4" FPT	B: Protocol alarm station with pressure
	2: 0-30 PSIG (0-3 BAR)	0-60 PSIG/ 0-4 BAR	3: 0-4000 PSIG/ 0-275 BAR	1: 1/4" MPT	1: Standard assembly 110 VAC (PSIG/kPa gauges)	TF2: 1/8" tube	C: Protocol switchover station
	3: 0-50 PSIG (0-3.5 BAR)	0-100 PSIG/ 0-7 BAR		2: 1/4" tube fitting	2: Bare body 220 VAC*	TF4: 1/4" tube	D: Deep purge*
	5: 0-100 PSIG (0-7 BAR)*	0-200 PSIG/ 0-14 BAR		3: Diaphragm valve 1/4" tube fitting	3: Standard assembly 220 VAC* (PSIG/kPa gauges)	TF6: 3/8" tube	E: Protocol alarm station with intrinsically safe transducer for hazardous
	7: 0-175 PSIG (0-12 BAR)	0-400 PSIG/ 0-27 BAR		4: Diaphragm valve 1/4" MPT	4: Standard assembly 110 VAC (BAR/PSIG gauges)	M06: 6mm tube	H: Protocol switchover alarm station with pressure switch gauges
				5: Needle valve 1/4" MPT	5: Standard assembly 220 VAC (BAR/PSIG gauges)*	CGA DIN 477 BS 341 and others available	J: Protocol alarm station with standard transducer for non- hazardous
				6: 1/8" tube fitting			
				7: 3/8" tube fitting	*220 volt models are CE marked		K: Protocol switchover alarm station with standard transducer for non-hazardous environments
				8: Diaphragm valve 1/8" tube fitting			
				9: Diaphragm valve 1/4" FPT			M: Protocol station
			A: 3/8" BSP RH fitting			Q: Protocol purge station	
			M: 6mm tube fitting			X: Protocol switchover alarm station with intrinsically safe transducer for hazardous environments	
			S: Diaphragm valve 6mm tube fitting				

## Installation Dimensions



## 308 Regulator Flow Curves



*Can't find what you need? We will be happy to assist you to find the right regulator to fit your needs.*